

In the United States Patent and Trademark Office

Application No.: 10/212,931
Filed: August 5, 2002
Title: LASER HAVING<100>ORIENTED CRYSTAL GAIN MEDIUM
Applicant(s): JAMES J. MOREHEAD et al
Examiner: not yet assigned
Art Unit: not yet assigned

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Mailed 9/12/2003
Fremont, CA

Information Disclosure Statement

Commissioner of Patents and Trademarks
Washington, District of Columbia 20231

Dear Sir or Madam:

Attached is a completed Form PTO-1449 and copies of the pertinent parts of the references cited thereon. It is requested that the document(s) on the enclosed form be made of record. As provided for by 37 CFR 1.97(g) and (h), no inference should be made that the information and references cited are prior art merely because they are in this statement and no representation is being made that a search has been conducted or that this statement encompasses all the possible relevant information.

Part I (Authority)

This statement is filed pursuant to:

☒ (X) 37 C.F.R. § 1.97(b).

This information disclosure statement is filed either (1) within three months of the filing date of the national applications; (2) within three months of the date of entry of the national stage as set forth in 37 C.F.R. § 1.491 in an international application; (3) before the mailing date of a first office action on the merits; or (4) before the mailing of a first Office action after the filing of a request for continued examination under § 1.114, whichever event occurs last. Accordingly, this information disclosure statement requires no fee and no certification

☐ () 37 C.F.R. § 1.97(c).

This information disclosure statement is filed after the period specified in 37 C.F.R. § 1.97(b), but before the mailing date of either (1) a final action under 37 C.F.R. § 1.113 or (2) a notice of allowance under 37 C.F.R. § 1.311. Accordingly, this information disclosure statement requires either the fee specified in 37 C.F.R. § 1.17(p) for submission of an information disclosure statement under 37 C.F.R. § 1.97(c) (\$180), or a certification according to 37 C.F.R. § 1.97(e).

☐ () 37 C.F.R. § 1.97(d).

This information disclosure statement is filed after the period specified in 37 C.F.R. § 1.97(c). Accordingly, this information disclosure statement requires the petition fee specified in 37 C.F.R. § 1.17(p) to consider an information disclosure statement under 37 C.F.R. § 1.97(d) (\$180) and a certification according to 37 C.F.R. § 1.97(e).

Conditional Petition

It is respectfully requested that this information disclosure statement be considered, good cause being presented in Part III herein (certification). Please treat this paper as the required petition.

If this statement crosses in the mail with an office action, or is otherwise not in the indicated category of 37 C.F.R. § 1.97, it is respectfully requested that this statement be treated in the next appropriate category and made of record.

To the extent required, please treat this paper as a conditional petition for acceptance of the information disclosure statement.

Part II (Payment)

A check is enclosed as indicated:

- ☒ (X) No fee is due.
- ☐ () The fee specified in 37 C.F.R. § 1.17(p) for submission of an information disclosure statement under 37 C.F.R. § 1.97(c) is enclosed (\$240).
- ☐ () The petition fee specified in 37 C.F.R. § 1.17(i)(1) to consider an information disclosure statement under 37 C.F.R. § 1.97(d) is enclosed (\$130).

Part III (Certification)

Pursuant to 37 C.F.R. § 1.97(e), I certify:

- ☒ (X) No certification is necessary.
- ☐ ()
 - (1) Each item of information contained in the information disclosure statement was cited in a communication from a foreign patent office in a counterpart foreign application not more than three months prior to the filing of the statement.
 - ☐ () The "communication from a foreign patent office" referred to in the certification is an International Search Report, possibly issued by the U.S. Patent and Trademark Office in its capacity as an International Search Authority or International Preliminary Examining Authority.
 - ☐ () The "counterpart foreign application" referred to in the certification corresponds to an ancestor or descendent application of the application for which this information disclosure statement is filed.
- ☐ () (2) No item of information contained in the information disclosure statement was cited in a communication from a foreign patent office in a counterpart foreign application, or, to my knowledge after making reasonable inquiry, was known to any individual designated in 37 C.F.R. § 1.56(c), more than three months prior to the filing of the statement.

Part IV (Additional Statement)

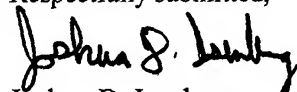
An additional statement regarding these items of information ☐ () is, ☒ (X) is not, enclosed.

Copies of the cited art ☒ (X) are enclosed, ☐ () are of record in parent application Serial No. _____ and will be provided if the Examiner deems it convenient.

References E and F are in the French language. Reference F is a PCT application claiming priority to reference E. These references are believed to be cumulative and therefore only a single English translation of reference C is provided.

Dated: 9/12/2003

Respectfully submitted,



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FORM PTO-1449 U.S. DEPARTMENT OF COMMERCE				AGENT's. DOCKET NO. LEL-007		SERIAL NO.		
LIST OF PRIOR ART CITED BY APPLICANT (Use several sheets if necessary)				APPLICANTS JAMES J. MOREHEAD et al.				
				FILING DATE		GROUP		
U.S. PATENT DOCUMENTS								
EXAMINER INITIAL		DOCUMENT NUMBER	DATE	NAME	CLASS	SUBCLASS	FILING DATE IF APPROPRIATE	
	A	US 6,023,479	2/8/2000	Thony et al.	372	11	1/6/1998	
	B	US 5,774,488	6/30/1998	Kmetec	372	69	6/30/1994	
	C	US 5,867,324	2/2/1999	Kmetec et al.	359	625	1/28/1997	
	D	US 5,850,407	12/15/1998	Grossman et al.	372	22	11/25/1997	
FOREIGN PATENT DOCUMENTS								
		DOCUMENT NUMBER	DATE	COUNTRY	CLASS	SUBCLASS	TRANSLATIO N	
							YES	NO
	E	EP 1042847	9/26/2001	Europe	7H01S	3/6		X
	F	WO 9934486	7/8/1999	WIPO	H01S	3/06		X
OTHER PRIOR ART (Including Author, Title, Date, Pertinent Pages, Etc.)								
	G	"Great Reduction of Thermally-induced-birefringence depolarization by use of a (110)-cut YAG crystal," by Ichiro.Shoji and T. Taira, in Laser Research Center, Institute for Molecular Science.						
	H	"Birefringence of YAG: Nd Laser Rods as a Fuction of Growth Direction" by W. Koechner and D. K. Rice, in Journal of the Optical Society of America June 1971, Volume 61,Number 6 pg 758.						
	I	"Effect of Birefringence on the Performance of Linearly Polarized YAG:Nd Lasers," by Walter Koechner and Dennis K. Rice, in IEEE Journal of Quantum Electronics, September 1970, pg 557, (1970).						
	J	"Intrinsic Reduction of the Depolarization Loss in Solid-State Lasers by use of a (100)-cut Y ₃ Al ₅ O ₁₂ Crystal," by Ichiro Shoji and Takunori Taira, <u>Applied Physics Letters</u> , Vol. 80, No. 17, 29 April 2002						
EXAMINER				DATE CONSIDERED				
* EXAMINER: Initial if reference considered, whether or not citation is in conformance with MPEP 609; Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant.								